



April 19, 2005

4329.02

Humboldt County Department of Health and Human Services  
Division of Environmental Health  
100 H Street, Suite 100  
Eureka, California 95501

Attention: Mr. Mark Verhey

Subject: Groundwater Monitoring Report; First Quarter 2005  
HPI Redwood Village Texaco, 723 South Fortuna Blvd., Fortuna, CA  
LOP No. 12551

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) is pleased to present to the Humboldt County Division of Environmental Health (HCDEH) the results of groundwater monitoring for the first quarter of 2005, at the Humboldt Petroleum, Inc. (HPI) Redwood Village Texaco (Figures 1 and 2). On February 3, 2005, depth-to-water (DTW) was measured in monitoring wells MW4 through MW12 and MW14 through MW18 for calculation of the hydraulic gradients. Groundwater samples were collected from monitoring wells MW4 through MW6, MW10, MW12, and MW15 through MW18 for laboratory analyses. Water was not purged in, nor were samples obtained from, monitoring well MW13 due to a hydraulic head at or below the bottom of the screened interval of the monitoring well.

DTW measurements were recorded when water levels reached equilibrium with the atmosphere, as demonstrated by a change of less than 0.02 feet for measurements made not less than 5 minutes apart. Once water levels equilibrated, water was purged from monitoring wells MW4, MW6, MW10, and MW15 through MW18 using a down-hole pump at a flow rate of less than 1 liter per minute with the intake set within the screened interval of the well. Water was purged in monitoring wells MW5 and MW12 using a 1 1/2-inch bailer, at a flow rate of less than 1 liter per minute with the intake set within the screened interval of the well. Groundwater was not purged in monitoring wells MW7 through MW9, MW11, and MW14 due to a hydraulic head just above the bottom of the screened interval of the monitoring well. Details can be reviewed on the water sampling log, included as Attachment 1.

Water quality parameters dissolved oxygen (DO), oxidation-reduction potential (ORP), conductivity (Ecw), pH, and temperature (T) were monitored in monitoring wells MW4, MW6, MW10, and MW15 through MW18 by routing the pump discharge through a flow cell. Formation water was sampled when indicator parameters stabilized within the accuracy range of the meters for three consecutive readings not less than 1 minute apart. The accuracy range of the DO, ORP, Ecw, pH, and T meters are  $\pm 0.3$  mg/L,  $\pm 2$  mV,  $\pm 20$   $\mu$ mhos,  $\pm 0.2$  pH, and  $\pm 0.5$   $^{\circ}$ C, respectively.

While maintaining a constant flow rate, laboratory-supplied sample containers were filled directly from pump discharges. Groundwater samples were kept cold and transported under standard chain-of-custody protocols to North Coast Laboratories Ltd. (NCL) in Arcata, California, for analysis of:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA Method 8260B
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B
- Methyl Tertiary Butyl Ether (MTBE), Tertiary Amyl Methyl Ether (TAME), Ethyl Tertiary Butyl Ether (ETBE), Di-isopropyl Ether (DIPE), and Tertiary Butyl Alcohol (TBA) by EPA Method 8260B

The groundwater sample from monitoring well MW6 was also analyzed for lead scavengers by EPA Method 8260B.

### **Hydraulic Gradient**

In previous monitoring events, the hydraulic gradients for both the shallow and deep water-bearing units have been typically calculated using the three-point method and hydraulic head elevations. Historic hydraulic head data are included in Table 1 and historic hydraulic gradients are presented in Table 2. Hydraulic heads for monitoring wells screened in the shallow and deep aquifers are provided in Figures 3 and 4.

#### *Shallow Water-Bearing Unit*

In previous monitoring events, the hydraulic gradient for the shallow water-bearing unit has typically been calculated using the three-point method and the hydraulic head elevations of monitoring wells MW4, MW10, and MW13. For the current sampling event, the shallow hydraulic gradient was not calculated due to variations in hydraulic head elevations which did not present a clear indication of a real groundwater flow. Previous calculated hydraulic gradients have indicated a southeasterly to southwesterly hydraulic gradient in the shallow water-bearing unit.

#### *Deep Water-Bearing Unit*

In previous monitoring events, the hydraulic gradient for the deep water-bearing unit has typically been calculated using the three-point method and the hydraulic head elevations of monitoring wells MW5, MW7, and MW12. The calculated hydraulic heads of monitoring wells MW12 and MW7 are identical for the current monitoring event, preventing a three-point hydraulic gradient calculation in the deep water-bearing unit. However, a hydraulic gradient for the deep water-bearing unit was calculated using the hydraulic head difference of monitoring wells MW7 and MW12 and that of monitoring well MW5, divided by the perpendicular distance between monitoring well MW5 and the equipotential line formed by monitoring wells MW7 and MW12. This calculation resulted in a hydraulic gradient of 7.7 percent in the S50°W direction, which is within the range of previous hydraulic gradients calculated for the deep water-bearing unit. Previous calculated hydraulic gradients have indicated a southwesterly hydraulic gradient in the deep water-bearing unit.

#### *Hydraulic Gradient Discussion*

An examination of the hydraulic heads, monitoring well screen intervals, and hydrostratigraphic conditions of the site suggests that vertical gradients exist in the area defined by an inferred east-west transect that includes monitoring wells MW4, MW18, MW15, and MW11. Table A, included below, contains screen interval information for monitoring wells MW4, MW18, MW15, and MW11.

Table A: Screen Intervals of Select Monitoring Wells				
Screen Interval (feet, bgs)	Monitoring Well			
	MW4	MW18	MW15	MW11
	3 - 10	4 - 14	5 - 10	5 - 10

Evidence of vertical gradients in this area of the site include the more than 7-foot difference in hydraulic head between monitoring wells MW18 and MW15, which are separated by a linear difference of approximately 12 feet. The vertical gradients appear to be driven by differences in lithology in which clayey silt to silty clay lenses may contribute to perching conditions in the area defined by these monitoring wells. In particular, the screen interval of monitoring well MW15 appears to intersect a clayey silt to silty clay lens, which may be acting as a perching layer in the immediate vicinity. Additionally, in the current sampling event there is more than a 7-foot hydraulic head difference between monitoring wells MW4 and MW18, which are separated by a linear difference of 50 feet. The elevated hydraulic head elevations of monitoring wells MW4 and MW15, which over the past hydrologic cycle have been consistently higher than those of monitoring wells MW18, MW11, and MW10, may be caused by recharge during the rainy season or the proximity of underground utility corridors.

### Laboratory Results and Discussion

Analyte concentrations in groundwater for the current sampling event are included in Figure 5 and Table B, included below. Historical groundwater analytical results are summarized in Table 1. The laboratory report for the current event is included as Attachment 2.

The case narrative included with NCL's laboratory analytical results indicate that the samples from monitoring wells MW4, MW6, and MW15 through MW18 appear to be similar to gasoline, but certain peak ratios are not that of a fresh gasoline standard. The reported results in these monitoring wells represent the amount of material in the gasoline range. Additionally, some reporting limits were raised for the samples from monitoring wells MW6, MW15, and MW16 due to matrix interference.

Table B: Laboratory Analytical Results for February 3, 2005												
WELL	Ethylbenzene											
	TPHg ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	zene ( $\mu\text{g/L}$ )	Xylenes ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	ETBE ( $\mu\text{g/L}$ )	Lead Scavengers ( $\mu\text{g/L}$ )	Other Analytes ( $\mu\text{g/L}$ )	
MW4	2,000	6.9	ND<0.50	19	2.5	630	230	34	2.7	---	ND<1.0	
MW5	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0	
MW6	35,000	4,400	94	2,200	1,100	18,000	880	240	92	ND<1.0-10	ND<1.0-10	
MW7					no sample collected							
MW8					no sample collected							
MW9					no sample collected							
MW10	ND<50	4.2	ND<0.50	1.8	0.81	1.3	ND<10	ND<1.0	ND<1.0	---	ND<1.0	
MW11					no sample collected							
MW12	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---		
MW13					no sample collected							
MW14					no sample collected							
MW15	3,100	16	1.4	160	71	13	ND<20	ND<1.0	ND<1.0	---	ND<1.0	
MW16	4,300	180	22	300	980	72	ND<35	2.6	ND<1.0	---	ND<1.0	
MW17	260	1.4	ND<0.50	3.3	8.0	190	83	7.3	ND<1.0	---	ND<1.0	
MW18	2,400	220	27	72	560	23	ND<10	2.5	ND<1.0	---	ND<1.0	

Monitoring wells MW9, MW11, MW13, and MW14 were redeveloped on February 10, 2005, using a solid block for surging and a down-hole pump for pumping. Monitoring wells MW17 and MW18 were redeveloped on February 14, 2005, using a solid block for surging and a down-hole pump for pumping. The installation of monitoring wells MW16 through MW18 was described in LACO's *Monitoring Well Installation*, submitted November 2004. The details of both monitoring well redevelopment events can be reviewed in the field notes, included as Attachment 3.

Laboratory results for groundwater samples analyzed from the monitoring wells are consistent with historical concentrations (Table 1). Exceptions to this observation include the first detection of benzene, ethylbenzene, total xylenes, and MTBE in monitoring well MW10, which had been reported as non-detect for all analytes dating to July 2002.

### Recommendations

- Continue with the current sampling protocol. The next sampling event is scheduled for May 2005.
- LACO requests a formal meeting with the HCDEH to discuss remedial goals and key wells to be used during the remediation program.

Please call if you have any questions or require additional information.

Sincerely,  
LACO ASSOCIATES



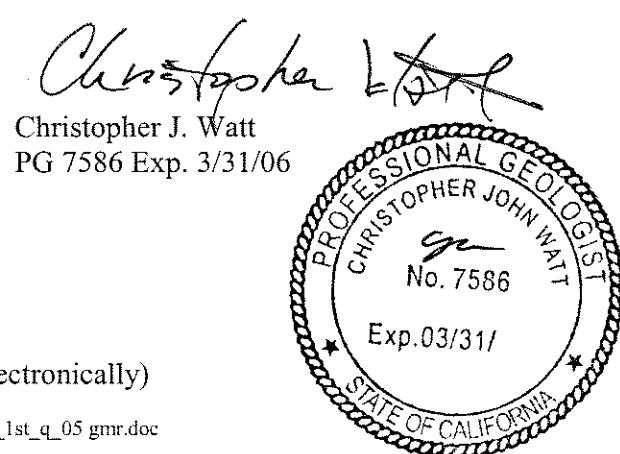
Vincent T. Sullivan, EIT  
Staff Engineer

VTS:lnm

Attachments

cc: Jim Seiler, Humboldt Petroleum, Inc. (sent electronically)

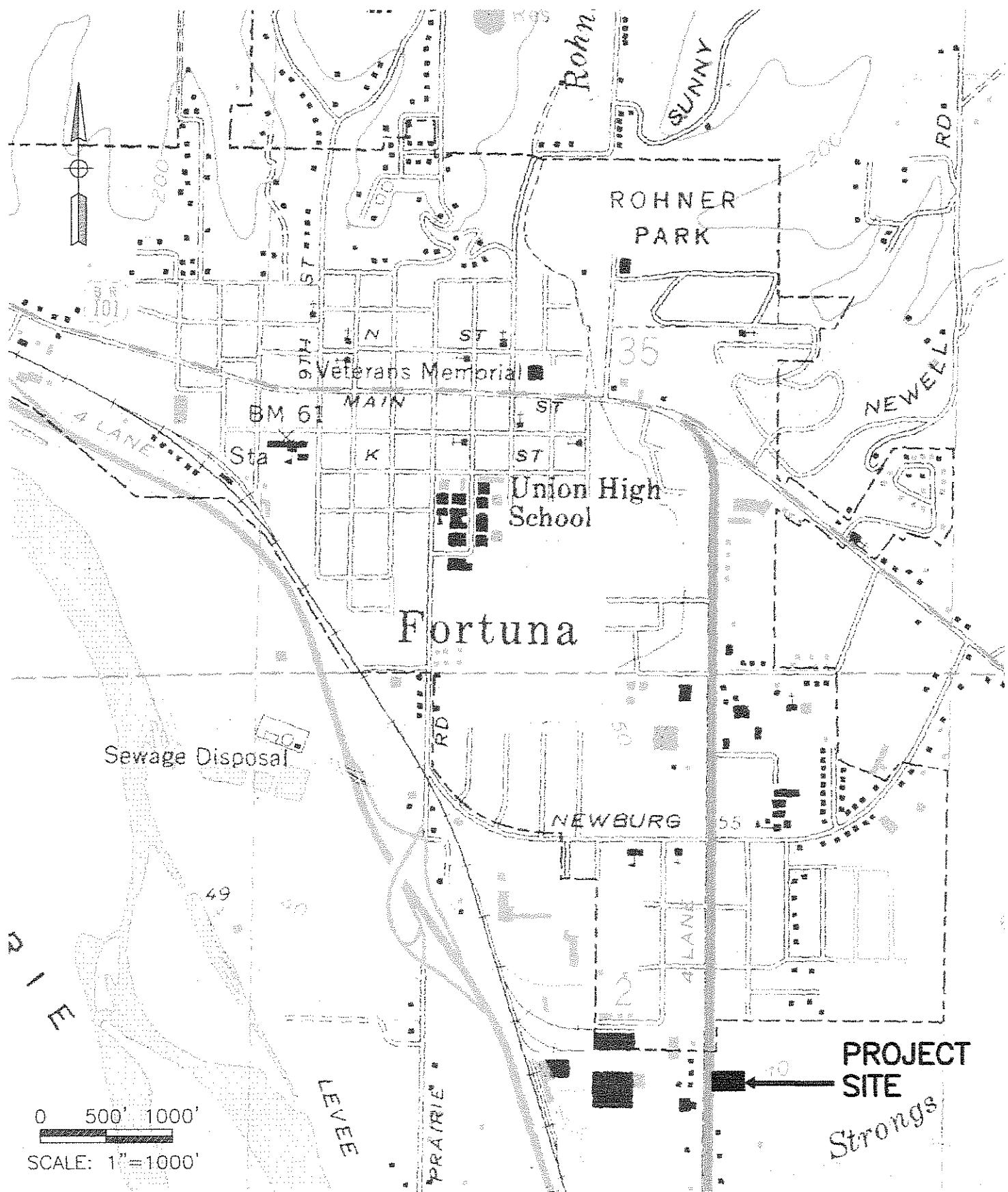
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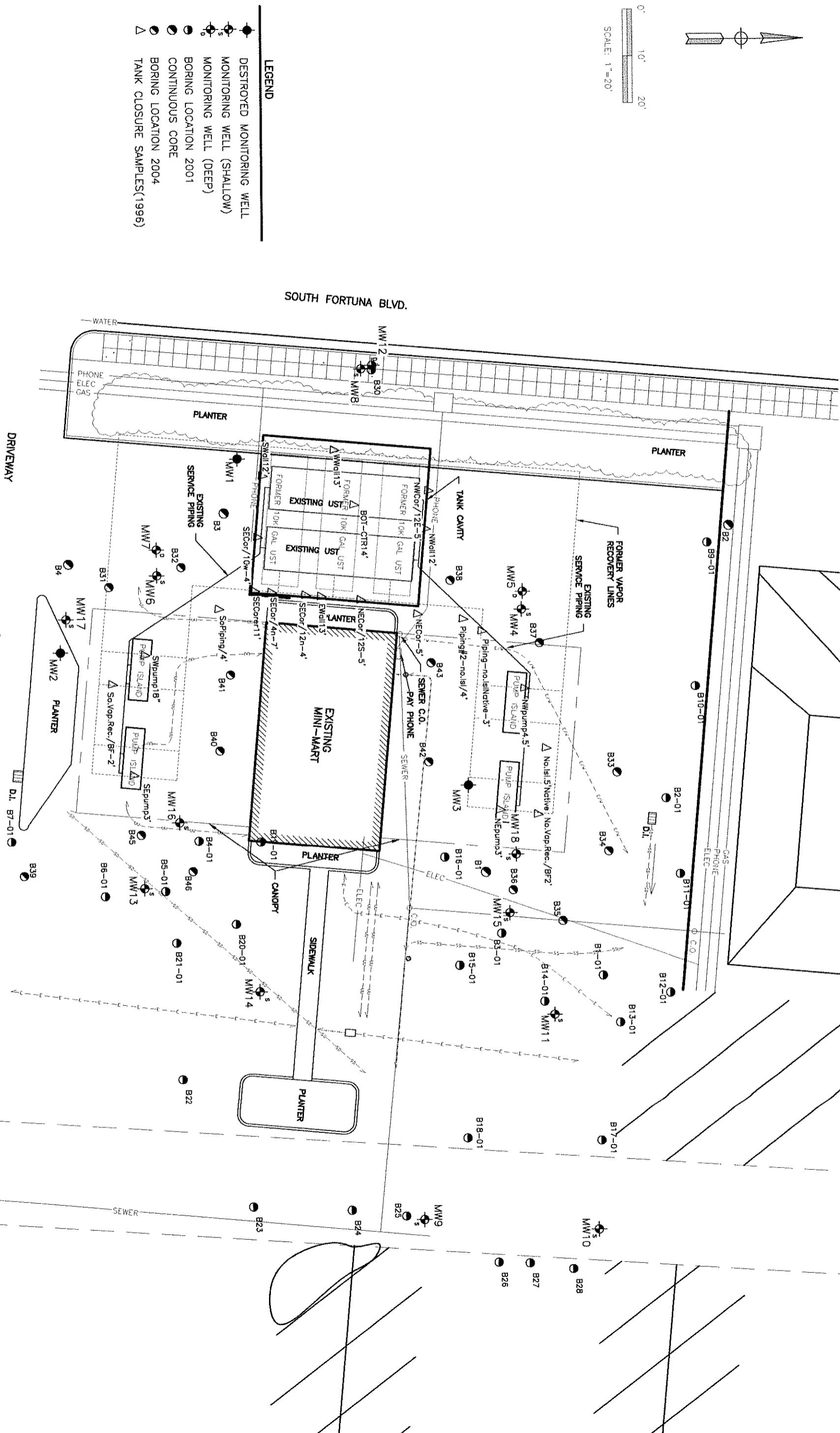


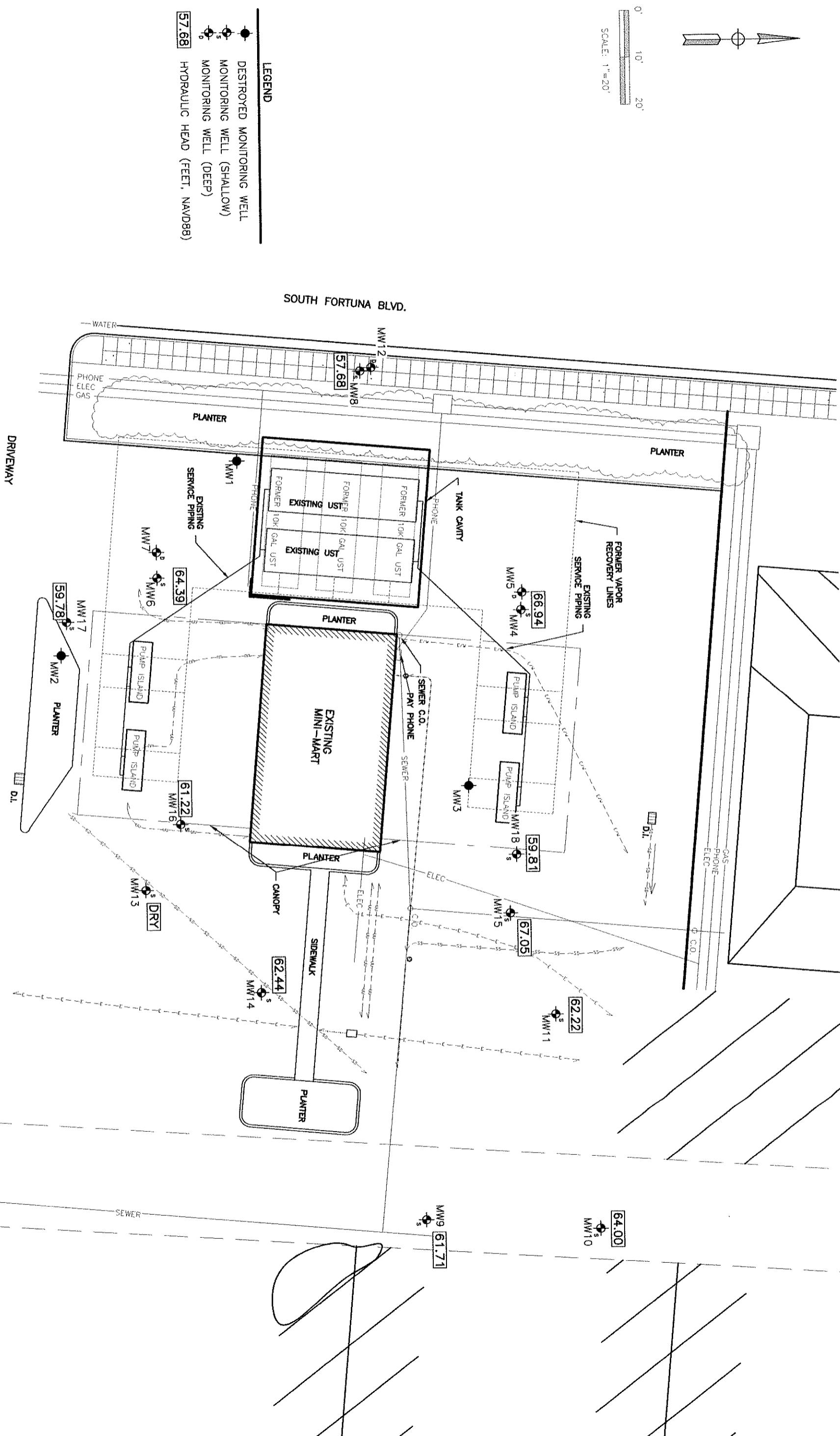


**LACO ASSOCIATES**  
CONSULTING ENGINEERS  
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
CLIENT	HUMBOLDT PETROLEUM, INC.	DATE	4/12/05	1
LOCATION	R. VILLAGE TEXACO	CHECK		JOB NO.
	LOCATION MAP	SCALE	1"=1000'	4329.02







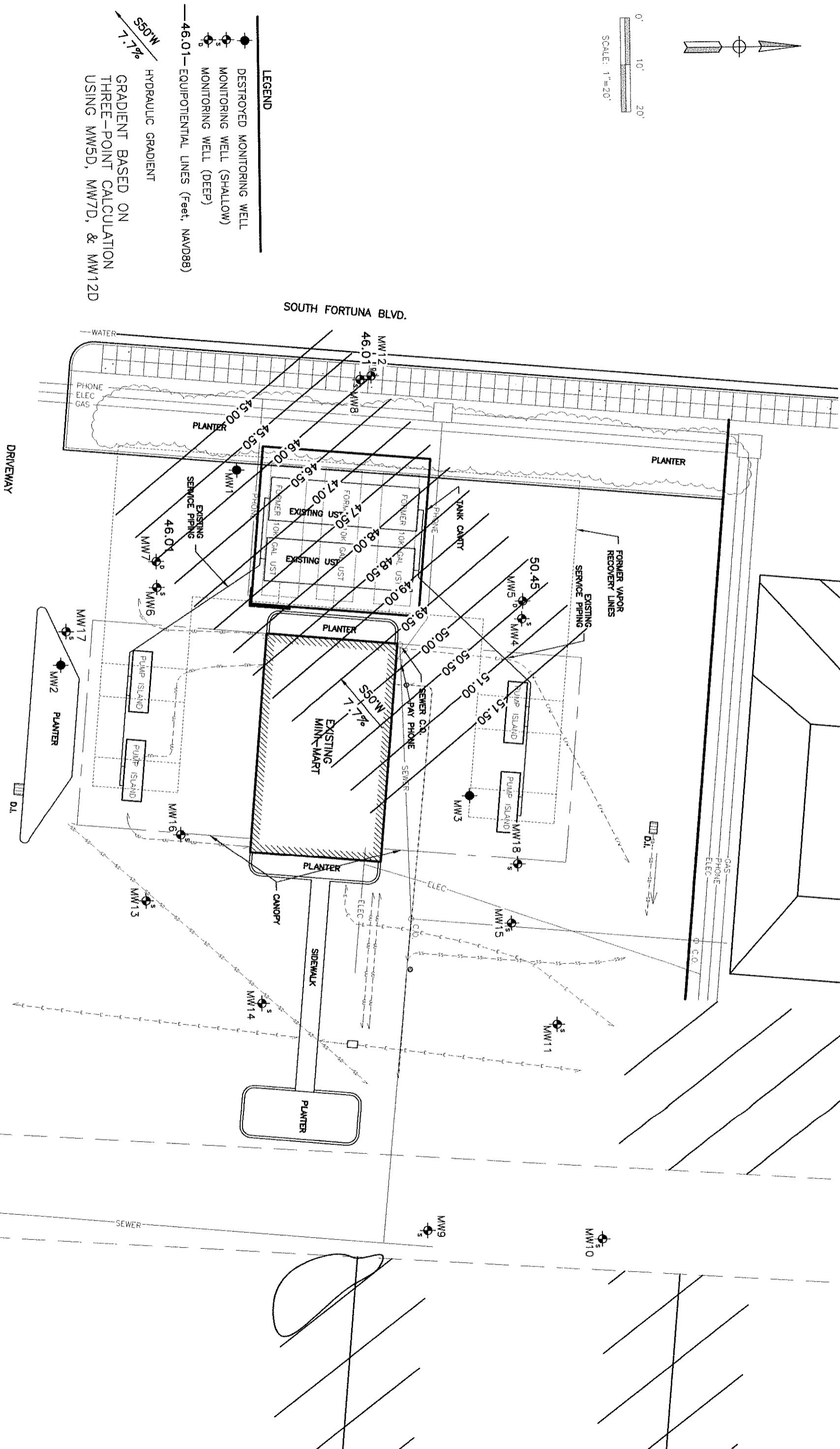




TABLE 1: GROUNDWATER ANALYTICAL RESULTS

HPI R Village Texaco  
723 South Fortuna Blvd, Fortuna  
LACO No. 4329.02; LCP No. 12551

	Groundwater Measurements										Analytical Results						
	Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	Lead (ng/L)	Scavengers (ng/L)	Other Analytes (µg/L)		
<b>MW-1</b>	12/2/1998	dry	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8/1/2000	dry	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>MW-2</b>	8/25/1999	dry	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8/1/2000	dry	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>MW-3</b>	8/25/1999	16.51	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8/1/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>MW-4</b>	72.21	NA	dry	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—	—
	8/11/2000	63.12	9.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	9/8/2000	64.03	8.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/12/2000	64.64	7.57	510	61	ND<0.50	55	34	210	ND<10	ND<1.0	All ND<1.0	All ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	11/9/2000	64.16	8.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	12/12/2000	64.81	7.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/8/2001	66.56	5.65	2,800	88	ND<0.50	150	87.4	380	94	19	ND<1.0	—	—	—	—	—
	2/14/2001	2,500	81	ND>0.50	140	79.4	340	100	100	17	ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	2/14/2001	field duplicate method blank	ND>0.50	ND>0.50	ND>0.50	ND>0.50	ND>0.50	ND>0.50	ND>0.50	ND>10	ND<1.0	ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	3/12/2001	66.79	5.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	4/6/2001	66.52	5.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/11/2001	66.41	5.80	1,300	120	ND<1	140	16	380	130	18	ND<1.0	All ND<2.5	All ND<2.5	All ND<2.5	All ND<2.5	All ND<2.5
	6/8/2001	65.50	6.71	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	7/16/2001	66.21	6.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8/24/2001	66.09	6.12	1,400	81	ND<1.3	78	40	650	290	36	3.4	All ND<2.5	All ND<2.5	All ND<2.5	All ND<2.5	All ND<2.5
	9/17/2001	65.39	6.82	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/24/2001	64.62	7.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	11/5/2001	65.32	6.89	1,000	45	1.4	68	30.6	640	180	30	2.3	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	12/5/2001	66.48	5.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/3/2002	67.13	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2/15/2002	66.63	5.58	1,700	8.5	ND<0.50	49	13	540	620	27	1.9	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	5/3/2002	66.63	5.58	1,900	7.4	ND<0.50	23	11.85	720	330	30	2.7	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	7/31/2002	66.26	5.95	1,700	21	0.77	72	36.2	650	230	32	2.6	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	12/5/2002	65.43	6.78	1,300	11	0.93	55	19.5	500	360	30	2.8	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	2/13/2003	62.68	9.53	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/21/2003	66.91	5.30	2,200	20	ND<0.50	64	16	670	220	34	2.6	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	8/6/2003	66.40	5.81	2,700	12	1.1	80	18.8	810	280	38	3.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	11/6/2003	65.83	6.38	2,500	8.1	ND<0.50	44	8.88	620	260	28	2.2	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0	All ND<1.0
	2/11/2004	66.91	5.30	2,000	12	ND<0.50	25	7.0	680	390	39	ND<6.0	—	—	—	—	—
	5/14/2004	66.30	5.91	1,900	20	ND<0.50	41	9.8	630	180	34	2.6	—	—	—	—	—
	8/30/2004	66.15	6.06	1,800	7.5	ND<0.50	29	4.8	650	350	39	2.8	—	—	—	—	ND<1.0

TABLE 1: GROUNDWATER ANALYTICAL RESULTS

HPI R Village Texaco  
723 South Fortuna Blvd, Fortuna  
LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Head (feet, NAVD-88)	Groundwater Measurements			Analytical Results									
		Well Head Hydraulic Head	Depth to Water (feet) (feet)	TPhg ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Xylenes ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	ETBE ( $\mu\text{g/L}$ )	Lead Scavengers ( $\mu\text{g/L}$ )
11/22/2004 2/3/2005	66.00 66.94	6.21 5.27	1,800 2,000	10 6.9	ND<0.50 ND<0.50	39 19	2.5	690 630	ND<500 230	34 34	3.1 2.7	--	--	ND<1.0 ND<1.0
<b>MW-4 Continued</b>														
8/11/2000 9/8/2000	50.46 49.04	21.86 23.28	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
10/12/2000 11/9/2000	48.40 48.40	23.92 23.92	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
12/12/2000 1/8/2001	48.40 48.40	23.92 23.92	ND<50 ND<50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	0.71 0.71	ND<50 ND<50	ND<1.0 ND<1.0	ND<1.0 ND<1.0	All ND<1.0 All ND<1.0	ND<1.0 ND<1.0	
2/14/2001 3/12/2001	50.47 50.53	21.85 21.79	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
4/6/2001 5/11/2001	50.54 50.50	21.78 21.82	ND<50 ND<50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	1.2 1.2	ND<50 ND<50	ND<1.0 ND<1.0	ND<1.0 ND<1.0	All ND<1.0 All ND<1.0	ND<1.0 ND<1.0	
6/8/2001 7/16/2001	50.47 48.90	21.85 23.42	-- no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
8/24/2001 9/17/2001	NA NA	dry dry	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
10/24/2001 11/5/2001	48.82 48.86	23.50 23.46	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
12/5/2001 1/3/2002	48.90 50.43	23.42 21.89	ND<50 ND<50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<50 ND<50	ND<1.0 ND<1.0	ND<20 ND<20	ND<1.0 ND<1.0	All ND<1.0 All ND<1.0	
2/15/2002 5/3/2002	50.47 48.99	21.85 23.33	ND<50 no sample collected	ND<50 no sample collected	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<50 ND<50	ND<1.0 ND<1.0	ND<20 ND<20	ND<1.0 ND<1.0	All ND<1.0-2.0 All ND<1.0	
7/31/2002 12/5/2002	48.63 49.44	23.69 22.88	no sample collected ND<50	-- ND<0.50	-- ND<0.50	-- ND<0.50	-- ND<0.50	-- ND<0.50	-- ND<0.50	-- ND<0.50	-- ND<20	-- ND<20	-- All ND<1.0	
2/13/2003 5/21/2003	50.52 50.52	21.80 21.80	ND<50 ND<50	2.9 1.4	ND<0.50 ND<0.50	0.62 1.1	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<50 ND<50	ND<1.0 ND<1.0	ND<20 ND<20	ND<1.0 ND<1.0	All ND<1.0 All ND<1.0	
8/6/2003 11/6/2003	48.84 50.49	23.48 21.83	\$7 52	ND<50 ND<50	ND<0.50 ND<0.50	0.74 1.3	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<50 ND<50	ND<1.0 ND<1.0	ND<20 ND<20	ND<1.0 ND<1.0	All ND<1.0 All ND<1.0	
2/11/2004 5/14/2004	48.83 NA	23.49 dry	ND<50 ND<50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	1.7 1.6	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<50 ND<50	2.2 1.6	ND<10 ND<10	ND<1.0 ND<1.0	ND<1.0-10 ND<1.0	
8/30/2004 11/22/2004	50.45 NA	21.87 dry	ND<50 ND<50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<0.50 ND<0.50	ND<50 ND<50	ND<1.0 ND<1.0	ND<10 ND<10	ND<1.0 ND<1.0	-- --	
2/3/2005	62.89	9.35	no sample collected	--	--	--	--	--	--	--	--	--	--	
<b>MW-5</b>	72.32													
8/11/2000 9/8/2000	NA NA	dry dry	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
10/12/2000 11/9/2000	NA NA	dry dry	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
12/12/2000 1/8/2001	NA NA	dry dry	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
2/14/2001 2/14/2001	62.89	21.87	no sample collected	--	--	--	--	--	--	--	--	--	--	
<b>MW-6</b>	72.24													
8/11/2000 9/8/2000	NA NA	dry dry	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
10/12/2000 11/9/2000	NA NA	dry dry	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
12/12/2000 1/8/2001	NA NA	dry dry	no sample collected no sample collected	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
2/14/2001 2/14/2001	62.89	9.35	no sample collected	--	--	--	--	--	--	--	--	--	--	

TABLE 1: GROUNDWATER ANALYTICAL RESULTS

HPI R Village Texaco

723 South Fortuna Blvd, Fortuna

LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Well Head Elevation (feet, NAVD-88)	Groundwater Measurements			Analytical Results										
		Head (feet) NAVD-88)	Water (feet) NAVD-88)	Depth to Water (feet)	TPHg ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Xylenes ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	MIBK ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	ETBE ( $\mu\text{g/L}$ )	Scavengers ( $\mu\text{g/L}$ )
<b>MW-6 Continued</b>															
3/12/2001	63.62	8.62	---	---	---	---	---	---	---	---	---	---	---	---	
4/6/2001	63.65	8.59	---	---	---	---	---	---	---	---	---	---	---	---	
5/11/2001	63.71	8.53	50,000	6,400	1,100	1,400	4,160	25,000	1,600	290	100	All ND<50	All others ND	---	
6/8/2001	63.43	8.81	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001	63.74	8.50	---	---	---	---	---	---	---	---	---	---	---	---	
8/24/2001	63.00	9.24	no sample collected		---	---	---	---	---	---	---	---	---	---	
9/17/2001	NA	dry	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001	NA	dry	---	---	---	---	---	---	---	---	---	---	---	---	
11/5/2001	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
12/5/2001	NA	dry	---	---	---	---	---	---	---	---	---	---	---	---	
1/3/2002	63.67	8.57	---	---	---	---	---	---	---	---	---	---	---	---	
2/15/2002	64.40	7.84	40,000	7,900	78	830	826	26,000	4,200	340	100	All ND<50-100	All others ND	---	
5/3/2002	63.99	8.25	57,000	8,800	37	930	869	41,000	2,600	460	140	All ND<50-100	All others ND	---	
7/31/2002	62.67	9.57	no sample collected		---	---	---	---	---	---	---	---	---	---	
12/5/2002	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
2/13/2003	63.44	8.80	54,000	8,700	180	1,300	1,510	44,000	ND	500	140	Dichloroethane	All others ND	1,2- = 4.2	
5/21/2003	65.71	6.53	58,000	10,000	550	2,000	3,480	28,000	1,200	390	110	Dichloroethane	All others ND	1,2- = 3.4	
8/6/2003	63.39	8.85	45,000	8,700	130	1,900	1,600	35,000	ND	500	160	All others ND<1.0	All others ND<1.0	All others ND<1.0	
11/6/2003	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
2/11/2004	63.94	8.30	47,000	7,000	100	1,900	1,230	28,000	ND	380	ND	ND<100	ND<50	ND<50	
5/14/2004	63.92	8.32	38,000	6,300	95	1,900	1,530	25,000	980	340	110	ND<50	ND<50	ND<50	
8/30/2004	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
11/22/2004	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
2/3/2005	64.39	7.85	35,000	4,400	94	2,200	1,100	18,000	880	240	92	ND<1.0-10	ND<1.0-10	ND<1.0-10	
<b>MW-7</b>															
8/11/2000	46.05	26.14	no sample collected		---	---	---	---	---	---	---	---	---	---	
9/8/2000	NA	dry	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000	NA	dry	---	---	---	---	---	---	---	---	---	---	---	---	
11/9/2000	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
12/12/2000	NA	dry	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
2/14/2001	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
3/12/2001	NA	dry	---	---	---	---	---	---	---	---	---	---	---	---	
4/6/2001	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	
5/11/2001	NA	dry	no sample collected		---	---	---	---	---	---	---	---	---	---	

**TABLE 1: GROUNDWATER ANALYTICAL RESULTS**

HPI R Village Texaco  
723 South Fortuna Blvd, Fortuna  
LACO No. 4329.02; LOP No. 12551

WELL / Sample Date	Well Head Elevation (feet)	Hydraulic Head (feet)	Depth to Water (feet)	Groundwater Measurements							Analytical Results						
				NAVD-88)	NAVD-88)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
<b>MW-7 Continued</b>																	
6/8/2001	NA	dry	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7/16/2001	NA	dry	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
8/24/2001	NA	dry	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
9/17/2001	NA	dry	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
10/24/2001	NA	dry	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
11/5/2001	NA	dry	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
12/5/2001	45.91	26.28	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
1/3/2002	45.90	26.29	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
2/15/2002	46.23	25.96	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
5/3/2002	46.37	25.82	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
7/31/2002	45.79	26.40	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
12/5/2002	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
2/13/2003	46.28	25.91	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
5/21/2003	47.76	24.43	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<10	ND<1.0	All ND<1.0	All ND<1.0	ND<1.0	ND<1.0	
8/6/2003	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
11/6/2003	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
2/11/2004	46.69	25.50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<10	ND<1.0	All ND<1.0	All ND<1.0	ND<1.0	ND<1.0	
5/14/2004	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
8/30/2004	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
11/22/2004	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
2/3/2005	46.01	26.18	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
<b>MW-8</b>																	
8/11/2000	60.53	11.77	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
9/8/2000	58.22	14.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/12/2000	58.22	14.08	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
11/9/2000	58.22	14.08	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
12/12/2000	58.22	14.08	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
1/8/2001	58.24	14.06	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
2/14/2001	58.22	14.08	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
3/12/2001	58.22	14.08	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
4/6/2001	58.21	14.09	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
5/11/2001	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
6/8/2001	58.22	14.08	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
7/16/2001	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
8/24/2001	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
9/17/2001	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
10/24/2001	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
11/5/2001	NA	dry	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
12/5/2001	58.23	14.07	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
1/3/2002	58.22	14.08	---	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
2/15/2002	58.21	14.09	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---
5/3/2002	58.19	14.11	no sample collected	---	no sample collected	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1: GROUNDWATER ANALYTICAL RESULTS

HPI R Village Texaco

723 South Fortuna Blvd, Fortuna  
LACO No. 4329.02; LOP No. 12551

## Groundwater Measurements

WELL/ Sample Date	Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
<b>MW-8 Continued</b>														
7/31/2002	58.18	14.12	no sample collected	---	---	---	---	---	---	---	---	---	---	---
12/5/2002	57.96	14.34	no sample collected	---	---	---	---	---	ND<0.50	ND<25	ND<25	ND<25	All ND<25-50	ND<25
2/13/2003	58.16	14.14	ND>2,500	ND>25	ND>25	ND>25	ND>25	ND>25	ND<1000	ND<1000	ND<1000	ND<1000	All ND<25-50	ND<25
5/21/2003	57.98	14.32	no sample collected	---	---	---	---	---	---	---	---	---	---	---
8/6/2003	57.87	14.43	no sample collected	---	---	---	---	---	---	---	---	---	---	---
11/6/2003	57.79	14.51	ND>2,500	ND>25	ND>25	ND>25	ND>25	ND>25	ND<1000	ND<1000	ND<1000	ND<1000	All ND<25-50	ND<25
2/11/2004	57.67	14.63	---	---	---	---	---	---	---	---	---	---	---	---
5/14/2004	57.65	14.65	no sample collected	---	---	---	---	---	---	---	---	---	---	---
8/30/2004	57.70	14.60	no sample collected	---	---	---	---	---	---	---	---	---	---	---
11/22/2004	57.66	14.64	no sample collected	---	---	---	---	---	---	---	---	---	---	---
2/3/2005	57.68	14.62	no sample collected	---	---	---	---	---	---	---	---	---	---	---
<b>MW-9</b>														
7/31/2002	59.83	11.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
12/5/2002	62.14	9.46	no sample collected	---	---	---	---	---	---	---	---	---	---	---
2/13/2003	62.18	9.42	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
5/21/2003	61.82	9.78	no sample collected	---	---	---	---	---	---	---	---	---	---	---
8/6/2003	NA	dry	no sample collected	---	---	---	---	---	---	---	---	---	---	---
11/6/2003	NA	dry	no sample collected	---	---	---	---	---	---	---	---	---	---	---
2/11/2004	NA	dry	no sample collected	---	---	---	---	---	---	---	---	---	---	---
5/14/2004	61.70	9.90	no sample collected	---	---	---	---	---	---	---	---	---	---	---
8/30/2004	61.69	9.91	no sample collected	---	---	---	---	---	---	---	---	---	---	---
11/22/2004	61.71	9.89	no sample collected	---	---	---	---	---	---	---	---	---	---	---
2/3/2005	61.71	9.89	no sample collected	---	---	---	---	---	---	---	---	---	---	---
<b>MW-10</b>														
7/31/2002	62.28	9.07	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	ND<10	ND<1.0	ND<1.0-2.0	ND<1.0
12/5/2002	61.94	9.41	no sample collected	---	---	---	---	---	---	---	---	---	---	---
2/13/2003	62.33	9.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
5/21/2003	62.51	8.84	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
8/6/2003	62.27	9.08	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
11/6/2003	61.69	9.66	no sample collected	---	---	---	---	---	---	---	---	---	---	---
2/11/2004	63.37	7.98	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
5/14/2004	62.29	9.06	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
8/30/2004	61.97	9.38	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
11/22/2004	61.73	9.62	no sample collected	---	---	---	---	---	---	---	---	---	---	---
2/3/2005	64.00	7.35	ND>50	4.2	ND<0.50	1.8	0.81	1.3	ND<10	ND<1.0	ND<1.0	ND<1.0	---	ND<1.0
<b>MW-11</b>														
7/31/2002	62.86	8.96	420	190	ND>0.50	0.67	12.5	3.2	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
12/5/2002	62.49	9.33	no sample collected	---	---	---	---	---	---	---	---	---	---	---
2/13/2003	63.06	8.76	120	15	ND>0.50	1.1	41	ND<60	ND<1.0	ND<1.0	ND<1.0	All ND<1.0	ND<1.0	ND<1.0
5/21/2003	63.27	8.55	79	5.5	ND>0.50	ND>0.50	26	ND<20	ND<1.0	ND<1.0	ND<1.0	All ND<1.0	ND<1.0	ND<1.0
8/6/2003	62.86	8.96	73	8.3	ND>0.50	0.58	0.70	30	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0	ND<1.0
11/6/2003	62.41	9.41	120	1.8	ND>0.50	ND>0.50	ND>0.50	24	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0	ND<1.0

TABLE 1: GROUNDWATER ANALYTICAL RESULTS

HPI R Village Texaco  
723 South Fortuna Blvd, Fortuna  
LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Head (feet, NAVD-88)	Groundwater Measurements			Analytical Results										
		Hydraulic Elevation (feet)	Head (feet)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
<b>MW-11 Continued</b>															
2/11/2004	62.21	9.61	—	—	—	—	—	—	—	—	—	—	—	—	—
5/14/2004	62.31	9.51	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
8/30/2004	62.31	9.51	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
11/22/2004	62.32	9.50	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
2/3/2005	62.22	9.60	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
<b>MW-12</b>															
7/31/2002	43.21	29.23	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0	
12/5/2002	42.50	29.94	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
2/13/2003	46.24	26.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<1.0	All ND<1.0	ND<1.0	ND<1.0	
5/21/2003	47.76	24.68	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<1.0	All ND<1.0	ND<1.0	ND<1.0	
8/6/2003	44.07	28.37	ND<50	ND<0.50	1.10	0.68	2.17	ND<0.50	ND<0.50	ND<20	ND<1.0	All ND<1.0	ND<1.0	ND<1.0	
11/6/2003	43.01	29.43	65	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<1.0	All ND<1.0	ND<1.0	ND<1.0	
2/11/2004	46.69	25.75	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
5/14/2004	45.76	26.68	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
8/30/2004	43.20	29.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
11/22/2004	43.58	28.86	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
2/3/2005	46.01	26.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
<b>MW-13</b>															
7/31/2002	63.00	8.84	5,700	360	890	140	1,070	13	ND<10	ND<1.0	All ND<1.0-2.0	ND<1.0	ND<1.0	ND<1.0	
12/5/2002	62.67	9.17	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
2/13/2003	62.67	9.17	6,700	580	50	530	1,476	ND<20	ND<80	ND<1.0	ND<1.0	All ND<1.0	ND<1.0	ND<1.0	
5/21/2003	62.26	9.58	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
8/6/2003	62.23	9.61	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
11/6/2003	62.24	9.60	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
2/11/2004	62.21	9.63	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
5/14/2004	62.24	9.60	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
8/30/2004	62.23	9.61	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
11/22/2004	62.25	9.59	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
2/3/2005	NA	dry	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
<b>MW-14</b>															
7/31/2002	63.58	8.48	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.4	ND<10	ND<1.0	ND<1.0-2.0	ND<1.0	
12/5/2002	62.73	9.33	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
2/13/2003	63.01	9.05	580	83	7.9	28	36.4	8.2	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0	ND<1.0	
5/21/2003	62.45	9.61	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
8/6/2003	62.35	9.71	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
11/6/2003	62.35	9.71	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
2/11/2004	NA	dry	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
5/14/2004	63.04	9.02	64	ND<0.50	ND<0.50	0.68	ND<0.50	5.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
8/30/2004	62.73	9.33	54	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.6	ND<25	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
11/22/2004	NA	dry	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—
2/3/2005	62.44	9.62	no sample collected	—	—	—	—	—	—	—	—	—	—	—	—

TABLE 1: GROUNDWATER ANALYTICAL RESULTS

HPI R Village Texaco

723 South Fortuna Blvd, Fortuna  
LACO No. 4529.02; LCP No. 12551

Groundwater Measurements							Analytical Results						
Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	Lead Scavengers (ng/L)	Other Analytes (µg/L)
<b>MW-15</b>	72.21												
7/31/2002	63.16	9.05	9,900	1,100	310	1,710	45	ND<20	1.8	ND<1.0	ND<1.0-2.0	All others ND	
12/5/2002	62.82	9.39	no sample collected		—	—	—	ND<50	1.1	ND<1.0	—	—	
2/13/2003	66.66	5.55	8,000	270	4.7	850	791	24	ND<20	ND<1.0	All ND<1.0	ND<1.0	
5/21/2003	66.67	5.54	6,800	100	4.1	480	257	14	ND<20	ND<1.0	All ND<1.0	ND<1.0	
8/6/2003	64.12	8.09	5,500	310	8.9	640	465	20	ND<20	1.1	ND<1.0	All ND<1.0	
11/6/2003	63.05	9.16	4,700	200	5.1	330	205	24	ND<20	1.2	ND<1.0	All ND<1.0	
2/11/2004	67.07	5.14	3,800	40	1.7	200	106	16	ND<30	ND<1.0	—	ND<1.0	
5/14/2004	66.26	5.95	6,000	50	2.2	450	143	13	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/30/2004	63.19	9.02	4,000	39	2.0	240	89	19	ND<25	1.2	ND<1.0	—	
11/22/2004	65.39	6.82	3,700	54	2.7	340	210	20	ND<70	1.2	ND<1.0	—	
2/3/2005	67.05	5.16	3,100	16	1.4	160	71	13	ND<20	ND<1.0	—	ND<1.0	
<b>MW-16</b>	71.74												
8/30/2004	58.41	13.33	3,200	26	85	16	323	36	ND<10	ND<1.0	—	ND<1.0	
11/22/2004	58.02	13.72	9,800	2,000	1,400	180	1,080	280	53	4.2	ND<1.0	—	
2/3/2005	61.22	10.52	4,300	180	22	300	980	72	ND<35	2.6	ND<1.0	—	
<b>MW-17</b>	71.50												
8/30/2004	57.82	13.68	no sample collected		—	—	—	—	—	—	—	—	ND<1.0
11/22/2004	57.56	13.94	no sample collected		—	—	—	—	—	—	—	—	ND<1.0
2/3/2005	59.78	11.72	260	1.4	ND<0.50	3.3	8.0	190	83	7.3	ND<1.0	—	ND<1.0
<b>MW-18</b>	71.83												
8/30/2004	58.26	13.57	580	6.3	14	4.4	95	17	ND<10	1.6	ND<1.0	—	ND<1.0
11/22/2004	57.99	13.84	7,400	2,000	460	200	890	190	85	13	ND<1.0	—	ND<1.0
2/3/2005	59.81	12.02	2,400	220	27	72	560	23	ND<10	2.5	ND<1.0	—	ND<1.0

**Notes:**

TPHg - total petroleum hydrocarbons as gasoline

Xylenes - total of m,p-xylenes and o-xylenes

Fuel oxygenates include:

MTBE - methyl tertiary butyl ether

ETBE - ethyl tertiary butyl ether

TAME - tertiary amyl methyl ether

TBA - tertiary butyl alcohol

DPE - Di-isopropyl ether

All results reported in micrograms per liter (µg/L)

ND - non-detect at the reporting limit shown (µg/L)

Bold results indicate analytic detection

— Not sampled

**TABLE 2: HISTORIC HYDRAULIC GRADIENT DATA**

HPI R Village Texaco

723 South Fortuna Blvd, Fortuna

LACO No. 4329.02; LOP No. 12551

<b>Date</b>	<b>Shallow Aquifer</b>		<b>Deep Aquifer</b>	
	Direction	Slope	Direction	Slope
11/9/2000	NA	NA	NA	NA
12/12/2000	NA	NA	NA	NA
12/5/2002	S72°E	3.70%	NA	NA
2/13/2003	S82°W	0.061	S50°W	0.055
5/21/2003	S43°E	4.60%	S49°W	4.80%
8/6/2003	S43°W	0.044	NA	NA
11/6/2003	S70°E	3.48%	NA	NA
2/11/2004	S42°E	0.046	S49°W	0.066
5/14/2004	S38°E	4.20%	S57°W	8.20%
8/30/2004	NA	NA	NA	NA
11/22/2004	S61°E	NA	NA	NA
2/3/2005	NA	NA	S50°W	7.7%

## **Attachment 1**



**LACO ASSOCIATES**  
CONSULTING ENGINEERS

21 W. 4th Street  
Eureka, California 95502  
707-443-5054

PROJECT Well Redevelopment

BY JLS

SHEET NO.

LOCATION Fortuna Blvd, Fortuna

DATE 2-10-05

of 2

CLIENT Fortuna Shell (HPI)

CHECKED *gn*

JOB NO.

4329.02

DATE 2/11/05

/3000

12:00 Leaving Fortuna

12:30 on-site, setting up on NW #9

12:40 OTW @ 9.91', adding water & starting

1:10 added 6 gallons of water, scraped with solid block  
then w/ check ball, to cut 5 gallon by scraping & starting  
to pump

1:15 added 5 more gallons & pumped out 5 more, coming out  
mostly clear (a little tan, will let sit 5 min & pump again)  
to get rest of water I put in.

2:20 pump another gallon of water, Well developed  
decreasing dimensions to NW #11

2:40 OTW @ 9.91' in NW #11, adding water & scraping

3:00 add 4 gallons of water & start, when adding the  
next 4 gallons, water has no flow & is not flowing, used  
solid block & then check ball, scraped out 3 gallons  
of water & starting to pump w/ DHP

3:30 water coming out clear & making before water  
pumped out about 10 gallons of water,  
Well developed, NW @ 4.85', deciding to move  
to NW #13

4:00 No water in well, adding water & scraping

4:15 add 4 gallons of water, used solid block &  
then check ball, scraped out 5 gallons of water  
& starting to pump w/ DHP



LACO ASSOCIATES

CONSULTING ENGINEERS

21 W. 4th Street  
Eureka, California 95502  
707-443-5054

PROJECT Well Redevelopment BY JLS  
LOCATION So. Fortuna Blvd, Fortuna DATE 2-18-05  
CLIENT Fortuna Shell (HPS) CHECKED  
JOB NO. 4329.02  
DATE 13000

SHEET NO.  
2072

4:50 Water pumping out clear & matured water to 10 ft.  
Borehole rate 1/2 ft. of gallons of water  
Well Redeveloped, decanning & moving to NW 1/4

5:00 Pump @ 9.45, adding water & screening

Additional 3-gallons of water, well tested black  
water check pump storage but 3 gallons of water  
staying in the pump with 6 HP

5:00 Water pumping out clear & matured water  
Borehole rate 1/2 ft. of gallons of water Well Redeveloped  
decanning & moving to NW 1/4

5:20 off site

1000 ft.

9 9.0

11 4.45

13 5.13

14 5.13



**LACO ASSOCIATES**  
CONSULTING ENGINEERS

21 W. 4th Street  
Eureka, California 95502  
707-443-5054

PROJECT Wall Redevelopment

BY JLS

SHEET NO.

1 of 1

LOCATION S. Fortuna Blvd Fortuna

DATE 2/14/05

CLIENT R-Village (CHP)

CHECKED

JOB NO.

41329,02

DATE 2/15/05

1/3000

10:15 on-site, setting on on MW#9

10:20 OTW @ 9.15', adding water & sarging

10:30 added 4 gallons of water, sarged with solid block & then with check ball, saged out 500 gallons & starting to pump with 2HP

10:40 pumped out 200' of water with 500' of saging water, moving the MW#18

10:45 OTW @ 10.25', adding water & sarging

11:00 added 5 gallons & saged with solid block & then check ball, saged out 500 gallons, starting to pump with 2HP

11:30 pumped out 100 gallons of water, never pumping out & well making good water, will Redefit tool cleaning & moving to Ministry

11:45 OTW @ 13.75', adding water & sarging

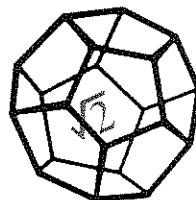
12:00 added 5 gallons of water, saged with solid block & then check ball, saged out 500 gallons, starting to pump with 2HP

12:45 pumped out 2 gallons, well still not making water  
decreasing & testing to have site

3:15	MW#	OTW
	9	6.31
	11	7.42
	13	4.98
	14	5.05
	17	5.08
	18	13.11

3:25 off site

## **Attachment 2**



NORTH COAST  
LABORATORIES LTD.

3:30

February 16, 2005

RECEIVED	LACO ASSOCIATES
FEB 18 2005	
BY: JG	

DRG  
CJW  
FRB

LACO Associates  
P.O. Box 1023  
Eureka, CA 95502

Attn: Accounts Payable

RE: 4329.02, HPI-R Village Texaco

Order No.: 0502078  
Invoice No.: 48116  
PO No.: TASK 3020  
ELAP No. 1247-Expires July 2006

**SAMPLE IDENTIFICATION**

Fraction	Client Sample Description
01A	4329-MW4-W
02A	4329-MW5-W
03A	4329-MW6-W
04A	4329-MW10-W
05A	4329-MW12-W
06A	4329-MW15-W
07A	4329-QCMB-W
08A	4329-QCFD-W
09A	4329-QCTB-W
10A	4329-MW16-W
11A	4329-MW17-W
12A	4329-MW18-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

**REPORT CERTIFIED BY**

Laboratory Supervisor(s)

  
T. Sherman

QA Unit

Jesse G. Chaney, Jr.  
Laboratory Director

**CLIENT:** LACO Associates  
**Project:** 4329.02, HPI-R Village Texaco  
**Lab Order:** 0502078

**CASE NARRATIVE**

## Gasoline Components/Additives:

Samples 4329-MW4-W, 4329-MW6-W, 4329-MW15-W, 4329-QCFD-W, 4329-MW16-W, 4329-MW17-W and 4329-MW18-W appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

Some reporting limits were raised for samples 4329-MW6-W, 4329-MW15-W and 4329-MW16-W due to matrix interference.

Date: 14-Feb-05  
WorkOrder: 0502078

## ANALYTICAL REPORT

Client Sample ID: 4329-MW4-W

Received: 2/3/05

Collected: 2/3/05 0:00

Lab ID: 0502078-01A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	630	50	µg/L	50		2/10/05
Tert-butyl alcohol (TBA)	230	10	µg/L	1.0		2/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/10/05
Ethyl tert-butyl ether (ETBE)	2.7	1.0	µg/L	1.0		2/10/05
Benzene	6.9	0.50	µg/L	1.0		2/10/05
Tert-amyl methyl ether (TAME)	34	1.0	µg/L	1.0		2/10/05
Toluene	ND	0.50	µg/L	1.0		2/10/05
Ethylbenzene	19	0.50	µg/L	1.0		2/10/05
m,p-Xylene	2.5	0.50	µg/L	1.0		2/10/05
o-Xylene	ND	0.50	µg/L	1.0		2/10/05
Surrogate: 1,4-Dichlorobenzene-d4	95.2	80.8-139	% Rec	1.0		2/10/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	2,000	50	µg/L	1.0		2/10/05

Client Sample ID: 4329-MW5-W

Received: 2/3/05

Collected: 2/3/05 0:00

Lab ID: 0502078-02A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/9/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/9/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/9/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/9/05
Benzene	ND	0.50	µg/L	1.0		2/9/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/9/05
Toluene	ND	0.50	µg/L	1.0		2/9/05
Ethylbenzene	ND	0.50	µg/L	1.0		2/9/05
m,p-Xylene	ND	0.50	µg/L	1.0		2/9/05
o-Xylene	ND	0.50	µg/L	1.0		2/9/05
Surrogate: 1,4-Dichlorobenzene-d4	98.3	80.8-139	% Rec	1.0		2/9/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/9/05

Date: 14-Feb-05  
WorkOrder: 0502078

## ANALYTICAL REPORT

Client Sample ID: 4329-MW6-W      Received: 2/3/05      Collected: 2/3/05 0:00  
Lab ID: 0502078-03A      Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	18,000	1,000	µg/L	1,000		2/10/05
Tert-butyl alcohol (TBA)	880	10	µg/L	1.0		2/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/10/05
Ethyl tert-butyl ether (ETBE)	92	1.0	µg/L	1.0		2/10/05
Benzene	4,400	50	µg/L	100		2/10/05
Tert-amyl methyl ether (TAME)	240	100	µg/L	100		2/10/05
1,2-Dichloroethane	ND	10	µg/L	1.0		2/10/05
Toluene	94	0.50	µg/L	1.0		2/10/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		2/10/05
Chlorobenzene	ND	1.0	µg/L	1.0		2/10/05
Ethylbenzene	2,200	50	µg/L	100		2/10/05
m,p-Xylene	870	50	µg/L	100		2/10/05
o-Xylene	230	50	µg/L	100		2/10/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		2/10/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		2/10/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		2/10/05
Surrogate: 1,4-Dichlorobenzene-d4	92.6	80.8-139	% Rec	1.0		2/10/05

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	35,000	5,000	µg/L	100		2/10/05

Client Sample ID:	4329-MW10-W					
Lab ID:	0502078-04A					
Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	1.3	1.0	µg/L	1.0		2/9/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/9/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/9/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/9/05
Benzene	4.2	0.50	µg/L	1.0		2/9/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/9/05
Toluene	ND	0.50	µg/L	1.0		2/9/05
Ethylbenzene	1.8	0.50	µg/L	1.0		2/9/05
m,p-Xylene	0.81	0.50	µg/L	1.0		2/9/05
o-Xylene	ND	0.50	µg/L	1.0		2/9/05
Surrogate: 1,4-Dichlorobenzene-d4	99.2	80.8-139	% Rec	1.0		2/9/05

Date: 14-Feb-05

WorkOrder: 0502078

Test Name: TPH as Gasoline

## ANALYTICAL REPORT

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/9/05

Client Sample ID: 4329-MW12-W

Received: 2/3/05

Collected: 2/3/05 0:00

Lab ID: 0502078-05A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/9/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/9/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/9/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/9/05
Benzene	ND	0.50	µg/L	1.0		2/9/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/9/05
Toluene	ND	0.50	µg/L	1.0		2/9/05
Ethylbenzene	ND	0.50	µg/L	1.0		2/9/05
m,p-Xylene	ND	0.50	µg/L	1.0		2/9/05
o-Xylene	ND	0.50	µg/L	1.0		2/9/05
Surrogate: 1,4-Dichlorobenzene-d4	99.3	80.8-139	% Rec	1.0		2/9/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/9/05

Client Sample ID: 4329-MW15-W

Received: 2/3/05

Collected: 2/3/05 0:00

Lab ID: 0502078-06A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	13	1.0	µg/L	1.0		2/10/05
Tert-butyl alcohol (TBA)	ND	20	µg/L	1.0		2/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/10/05
Benzene	16	0.50	µg/L	1.0		2/10/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/10/05
Toluene	1.4	0.50	µg/L	1.0		2/10/05
Ethylbenzene	160	25	µg/L	50		2/10/05
m,p-Xylene	55	0.50	µg/L	1.0		2/10/05
o-Xylene	16	0.50	µg/L	1.0		2/10/05
Surrogate: 1,4-Dichlorobenzene-d4	95.3	80.8-139	% Rec	1.0		2/10/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/9/05

Date: 14-Feb-05

WorkOrder: 0502078

TPHC Gasoline

3,100

50

µg/L

1.0

2/10/05

## ANALYTICAL REPORT

Client Sample ID: 4329-QCMB-W

Received: 2/3/05

Collected: 2/3/05 0:00

Lab ID: 0502078-07A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/10/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/10/05
Benzene	ND	0.50	µg/L	1.0		2/10/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/10/05
Toluene	ND	0.50	µg/L	1.0		2/10/05
Ethylbenzene	ND	0.50	µg/L	1.0		2/10/05
m,p-Xylene	ND	0.50	µg/L	1.0		2/10/05
o-Xylene	ND	0.50	µg/L	1.0		2/10/05
Surrogate: 1,4-Dichlorobenzene-d4	99.2	80.8-139	% Rec	1.0		2/10/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/10/05

Client Sample ID: 4329-QCFD-W

Received: 2/3/05

Collected: 2/3/05 0:00

Lab ID: 0502078-08A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	180	50	µg/L	50		2/10/05
Tert-butyl alcohol (TBA)	76	10	µg/L	1.0		2/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/10/05
Benzene	0.98	0.50	µg/L	1.0		2/10/05
Tert-amyl methyl ether (TAME)	6.6	1.0	µg/L	1.0		2/10/05
Toluene	ND	0.50	µg/L	1.0		2/10/05
Ethylbenzene	2.6	0.50	µg/L	1.0		2/10/05
m,p-Xylene	5.0	0.50	µg/L	1.0		2/10/05
o-Xylene	0.74	0.50	µg/L	1.0		2/10/05
Surrogate: 1,4-Dichlorobenzene-d4	94.5	80.8-139	% Rec	1.0		2/10/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	240	50	µg/L	1.0		2/10/05

Date: 14-Feb-05  
WorkOrder: 0502078

## ANALYTICAL REPORT

Client Sample ID: 4329-QCTB-W      Received: 2/3/05      Collected: 2/3/05 0:00  
Lab ID: 0502078-09A      Matrix: Trip Blank

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/9/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/9/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/9/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/9/05
Benzene	ND	0.50	µg/L	1.0		2/9/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/9/05
Toluene	ND	0.50	µg/L	1.0		2/9/05
Ethylbenzene	ND	0.50	µg/L	1.0		2/9/05
m,p-Xylene	ND	0.50	µg/L	1.0		2/9/05
o-Xylene	ND	0.50	µg/L	1.0		2/9/05
Surrogate: 1,4-Dichlorobenzene-d4	97.5	80.8-139	% Rec	1.0		2/9/05

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/9/05

Client Sample ID: 4329-MW16-W      Received: 2/3/05      Collected: 2/3/05 0:00  
Lab ID: 0502078-10A      Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	72	1.0	µg/L	1.0		2/10/05
Tert-butyl alcohol (TBA)	ND	35	µg/L	1.0		2/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/10/05
Benzene	180	25	µg/L	50		2/10/05
Tert-amyl methyl ether (TAME)	2.6	1.0	µg/L	1.0		2/10/05
Toluene	22	0.50	µg/L	1.0		2/10/05
Ethylbenzene	300	25	µg/L	50		2/10/05
m,p-Xylene	800	25	µg/L	50		2/10/05
o-Xylene	180	25	µg/L	50		2/10/05
Surrogate: 1,4-Dichlorobenzene-d4	97.1	80.8-139	% Rec	1.0		2/10/05

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	4,300	2,500	µg/L	50		2/10/05

Date: 14-Feb-05  
WorkOrder: 0502078

## ANALYTICAL REPORT

Client Sample ID: 4329-MW17-W      Received: 2/3/05      Collected: 2/3/05 0:00  
Lab ID: 0502078-11A      Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	190	50	µg/L	50		2/10/05
Tert-butyl alcohol (TBA)	83	10	µg/L	1.0		2/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/10/05
Benzene	1.4	0.50	µg/L	1.0		2/10/05
Tert-amyl methyl ether (TAME)	7.3	1.0	µg/L	1.0		2/10/05
Toluene	ND	0.50	µg/L	1.0		2/10/05
Ethylbenzene	3.3	0.50	µg/L	1.0		2/10/05
m,p-Xylene	6.9	0.50	µg/L	1.0		2/10/05
o-Xylene	1.1	0.50	µg/L	1.0		2/10/05
Surrogate: 1,4-Dichlorobenzene-d4	94.4	80.8-139	% Rec	1.0		2/10/05

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	260	50	µg/L	1.0		2/10/05

Client Sample ID: 4329-MW18-W      Received: 2/3/05      Collected: 2/3/05 0:00  
Lab ID: 0502078-12A      Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	23	1.0	µg/L	1.0		2/10/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/10/05
Benzene	220	25	µg/L	50		2/10/05
Tert-amyl methyl ether (TAME)	2.5	1.0	µg/L	1.0		2/10/05
Toluene	27	0.50	µg/L	1.0		2/10/05
Ethylbenzene	72	0.50	µg/L	1.0		2/10/05
m,p-Xylene	420	25	µg/L	50		2/10/05
o-Xylene	140	25	µg/L	50		2/10/05
Surrogate: 1,4-Dichlorobenzene-d4	94.3	80.8-139	% Rec	1.0		2/10/05

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	2,400	50	µg/L	1.0		2/10/05

## North Coast Laboratories, Ltd.

Date: 14-Feb-05

## QC SUMMARY REPORT

Method Blank

**CLIENT:** LACO Associates  
**Work Order:** 0502078  
**Project:** 4329.02, HPI-R Village Texaco

Sample ID: <b>MB 020905</b>	Batch ID: <b>R33287</b>	Test Code: <b>82600XXW</b>	Units: <b>µg/L</b>	Analysis Date: <b>2/9/05 8:59:00 AM</b>			Prep Date:	
Client ID:		Run ID: <b>ORGCMSS3_050209B</b>		SeqNo:	<b>482326</b>			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val
Methyl tert-butyl ether (MTBE)	ND	1.0						
Tert-butyl alcohol (TBA)	ND	1.0						
Di-isopropyl ether (DIPE)	ND	1.0						
Ethyl tert-butyl ether (ETBE)	ND	1.0						
Benzene	ND	0.50						
Tert-amyl methyl ether (TAME)	ND	1.0						
Toluene	0.1484	0.50						
Ethylbenzene	0.1327	0.50						
m,p-Xylene	0.2196	0.50						
o-Xylene	ND	0.50						
1,4-Dichlorobenzene-d4	0.959	0.10	1.00	0	95.9%	81	139	0
<hr/>								
Sample ID: <b>MB 020905</b>	Batch ID: <b>R33285</b>	Test Code: <b>GASW-MS</b>	Units: <b>µg/L</b>	Analysis Date: <b>2/9/05 8:59:00 AM</b>			Prep Date:	
Client ID:		Run ID: <b>ORGCMSS3_050209A</b>		SeqNo:	<b>482305</b>			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val
TPHC Gasoline	25.18	50						

Qualifiers:

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## North Coast Laboratories, Ltd.

Date: 14-Feb-05

**QC SUMMARY REPORT**  
 Laboratory Control Spike

**CLIENT:** LACO Associates  
**Work Order:** 0502078  
**Project:** 4329.02, HPI-R Village Texaco

Sample ID: LCs-05096	Batch ID: R33287	Test Code: 8260OXYW	Units: µg/L	Analysis Date: 2/9/05 5:36:00 AM			Prep Date:
Client ID:		Run ID: ORGCMS3_050209B		% Rec	LowLimit	HighLimit	RPD Ref Val
Analyte	Result	Limit	SPK value	SPK Ref Val	%		%RPD
Methyl tert-butyl ether (MTBE)	20.42	1.0	20.0	0	102%	80	120
Tert-butyl alcohol (TBA)	353.6	10	400	0	88.4%	25	162
Di-isopropyl ether (DIPE)	20.97	1.0	20.0	0	105%	80	120
Ethyl tert-butyl ether (ETBE)	20.82	1.0	20.0	0	104%	77	120
Benzene	21.10	0.50	20.0	0	106%	78	117
Tert-amyl methyl ether (TAME)	20.53	1.0	20.0	0	103%	64	136
Toluene	19.29	0.50	20.0	0	96.5%	80	120
Ethylbenzene	20.33	0.50	20.0	0	102%	80	120
m,p-Xylene	41.07	0.50	40.0	0	103%	80	120
o-Xylene	20.06	0.50	20.0	0	100%	80	120
1,4-Dichlorobenzene-d4	1.00	0.10	1.00	0	100%	81	139
Sample ID: LCSD-05096	Batch ID: R33287	Test Code: 8260OXYW	Units: µg/L	Analysis Date: 2/9/05 6:01:00 AM			Prep Date:
Client ID:		Run ID: ORGCMS3_050209B		% Rec	LowLimit	HighLimit	RPD Ref Val
Analyte	Result	Limit	SPK value	SPK Ref Val	%		%RPD
Methyl tert-butyl ether (MTBE)	20.69	1.0	20.0	0	103%	80	120
Tert-butyl alcohol (TBA)	357.2	10	400	0	89.3%	25	162
Di-isopropyl ether (DIPE)	21.00	1.0	20.0	0	105%	80	120
Ethyl tert-butyl ether (ETBE)	20.91	1.0	20.0	0	105%	77	120
Benzene	21.15	0.50	20.0	0	106%	78	117
Tert-amyl methyl ether (TAME)	20.90	1.0	20.0	0	104%	64	136
Toluene	19.42	0.50	20.0	0	97.1%	80	120
Ethylbenzene	20.53	0.50	20.0	0	103%	80	120
m,p-Xylene	41.33	0.50	40.0	0	103%	80	120
o-Xylene	20.43	0.50	20.0	0	102%	80	120
1,4-Dichlorobenzene-d4	1.02	0.10	1.00	0	102%	81	139

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**QC SUMMARY REPORT**  
Laboratory Control Spike

CLIENT: LACO Associates  
 Work Order: 0502078  
 Project: 4329.02, HPI-R Village Texaco

Sample ID:	Batch ID:	Test Code:	Units:	Analysis Date: 2/9/05 7:17:00 AM				Prep Date:			
Client ID:		Run ID:	µg/L	SeqNo: 482302							
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1.073	50	1,000	0	107%	80	120	0			
Sample ID:	Batch ID:	Test Code:	Units:	Analysis Date: 2/9/05 7:43:00 AM				Prep Date:			
Client ID:		Run ID:	µg/L	SeqNo: 482303							
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1.072	50	1,000	0	107%	80	120	1,070	0.146%	20	

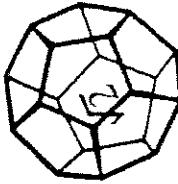
Qualifiers:

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



**NORTH COAST  
LABORATORIES LTD.**

5660 West End Road • Arcata • CA 95521-9202  
707-822-4649 FAX 707-822-6011

## Chain of Custody

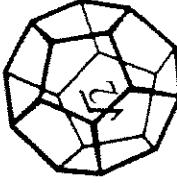
Attention: Accounts Payable	Results & Invoice to: Laco Associates	Address: 21 W. 4th St. Eureka CA 95501	Phone: (707) 443-5054	Copies of Report to: LACO ; Chris Watt	Sampler (Sign & Print): SID <i>Sta S</i>	<b>PROJECT INFORMATION</b>	Project Number: 43329.02	Purchase Order Number: task: 3020	ANALYSIS	8260 List 1	8260 List 15	CONTAINER PRESERVATIVE	TAT: 124 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 15 Day <input type="checkbox"/> 15 Day ✓ STD (2-3 Wk) <input type="checkbox"/> Other: _____
<b>REPORTING REQUIREMENTS:</b> State Forms <input type="checkbox"/> Preliminary: FAX <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> By: _____ Final Report: FAX <input type="checkbox"/> Verbal <input type="checkbox"/> By: _____												PRIORITY AUTHORIZATION IS REQUIRED FOR RUSHES	
<b>CONTAINER CODES:</b> 1—1/2 gal; p—2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L CG; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other												<b>PRESERVATIVE CODES:</b> a—HNO <sub>3</sub> ; b—HCl; c—H <sub>2</sub> SO <sub>4</sub> ; d—Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ; e—NaOH; f—C <sub>2</sub> H <sub>5</sub> O <sub>2</sub> ; g—other	
<b>SAMPLE CONDITION/SPECIAL INSTRUCTIONS</b> GEOTRACKER												<i>Cold intact</i>	
LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	4329-MW4-W	2-3-05	AM	GW	3				
	4329-MW5-W								3				
	4329-MW6-W								3				
	4329-MW7-W												
	4329-MW8-W												
	4329-MW9-W												
	4329-MW10-W								3				
	4329-MW11-W												
	4329-MW12-W								3				
	4329-MW13-W												
RELINQUISHED BY (Sign & Print)		DATE/TIME	RECEIVED BY (Sign)	DATE/TIME	STEVE DAVIS		2-3-05	<i>J. Donagan</i>	4:32 PM	SAMPLE DISPOSAL			
<i>John</i>										CHAIN OF CUSTODY SEALS Y/N/NA	<input checked="" type="checkbox"/> NCL Disposal of Non-Contaminated		
										SHIPPED VIA:	UPS <input type="checkbox"/> Air-Ex <input type="checkbox"/> Fed-Ex <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Hand		
										<input type="checkbox"/> Return	<input type="checkbox"/> Pickup		
										3/3/05	1632		

\***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

**NORTH COAST  
LABORATORIES LTD.**

5660 West End Road • Alcala • CA 95521-9202  
707-822-4649 Fax 707-822-6831

**Chain of Custody**



**LABORATORY NUMBER:**

0502098

Attention: Accounts Payable	TAT: <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 75 Day <input type="checkbox"/> 157 Day			
Results & Invoice to: Laco Associates	<input checked="" type="checkbox"/> STD (2-3 Wk) <input type="checkbox"/> Other: _____			
Address: 21 W 4th St. Eureka CA 95501	<b>PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES</b>			
Phone: (707) 443-5054	<b>REPORTING REQUIREMENTS:</b> State Forms <input type="checkbox"/>			
Copies of Report to: LACO ; Chris Watt	Preliminary: FAX <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> By: _____			
Sampler (Sign & Print): SID	Final Report: FAX <input type="checkbox"/> Verbal <input checked="" type="checkbox"/> By: _____			
<b>CONTAINER CODES:</b> 1—1/2 gal. pt; 2—250 ml pt; 3—500 ml pt; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L CG; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other				
<b>PRESERVATIVE CODES:</b> a—HNO <sub>3</sub> ; b—HCl; c—H <sub>2</sub> SO <sub>4</sub> ; d—Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ; e—NaOH; f—C <sub>2</sub> H <sub>5</sub> O <sub>2</sub> Cl; g—other				
<b>ANALYSIS</b> 8260 List 1				
<b>PROJECT INFORMATION</b>				
Project Number: 4329.02				
Project Name: HPI - R Village Texaco				
Purchase Order Number: task  3020				
<b>LAB ID</b>	<b>SAMPLE ID</b>	<b>DATE</b>	<b>TIME</b>	<b>MATRIX*</b>
4329-MW	2-3-05	AM	GW	
4329-MW 15-W				
4329-QCMB-W				
4329-QCFD-W				
4329-QCTB-W		PM		
4329-MW 16-W	2/3		GW	
4329-MW 17-W				
4329-MW 18-W				
<i>Sample taken to lab</i>				
<b>RELINQUISHED BY (Sign &amp; Print)</b>	<b>DATE/TIME</b>	<b>RECEIVED BY (Sign)</b>		
STEVE DAVIS	2-3-05			
	4:32 PM			
<b>SAMPLE DISPOSAL</b>			<b>DATE/TIME</b>	<b>DISPOSAL</b>
<input checked="" type="checkbox"/> NCL Disposal of Non-Contaminated			2/3/05	<input type="checkbox"/> Pickup
<input type="checkbox"/> Return			2/8/05	<input checked="" type="checkbox"/> Hand
<b>CHAIN OF CUSTODY SEALS Y/N/NA</b>				
<b>SHIPPED VIA:</b> UPS Air-Ex Fed-Ex Bus Hand				

\*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

**ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT**

## **Attachment 3**



Project Name: **R Village Texaco**  
 Project No.: **4329.02**  
 Date: **2-3-05**  
 Global ID No.: **T0602300415**  
 PM: **CJW**

Tech: **SJD**  
 Mob/Demob time: **.25/.25**  
 Travel time: **.25**  
 Time on site: **8:15**  
 Time off site: **3:45**  
 Mileage: **48**

WELL No.:	MW4	MW5	MW6	MW7	MW8
DIAMETER (in)	2.00	2.00	2.00	2.00	2.00
SCREENED INTERVAL (ft)	<b>3-10</b>	<b>15-24.1</b>	<b>3-10</b>	<b>15-26.3</b>	<b>10-15</b>
DEPTH TO WATER (ft)	<b>5.23</b>	<b>21.87</b>	<b>7.85</b>	<b>26.13</b>	<b>14.62</b>
	INITIAL	FINAL	INITIAL	FINAL	INITIAL
pH	6.8	5.6		5.9	5.9
TEMP (°C)	13.1	14.5		16.0	17.5
Ecw (μmhos)	225	211		206	196
ORP (mV)	22	37		24	12
DO (mg/L)	1.07	0.52		1.16	0.36
OTHER (units)	—	—	—	—	—
	TIME	10:20	10:28	10:40	10:45
PURGE	METHOD (DHP/CB/B)	DHP	1½" B	DHP	—
	RATE (Lpm)	0.19	0.20	0.16	—
	VOLUME (L)	1.50	1.0	1.60	—
	COLOR	CLEAR	CLEAR	CLEAR	CLEAR
	ODOR	LIGHT SWEET / RUBBER	SLIGHT STRONG SULFUR	MED SWEET / RUBBER	—
	INTAKE DEPTH (FEET)	9.0	—	9.5	—
SAMPLE	TIME	10:29	10:49	11:25	—
	METHOD (DHP/CB/B)	DHP	1½" B	DHP	—
	ANALYTICS	8260 List 1	8260 List 1	8260 List 5	8260 List 1
	TOTAL DRAWDOWN (FEET)	0.64	—	0.94	—
	REMARKS	—	—	—	NO PURGE - SAMPLE ONLY 0.9" H <sub>2</sub> O
	WELL CONDITION	good	good	good	good
	WASTE DRUMS	1 DOT DRUM ONSITE	DECON + PURGE	Full	NO PURGE - SAMPLE ONLY 0.21" H <sub>2</sub> O

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **R Village Texaco**  
 Project No.: **4329.02**  
 Date: **2-3-05**  
 Global ID No.: **T0602300415**  
 PM: **CJW**

Tech: **SJD**  
 Mob/Demob time: **.25/.25**  
 Travel time: **1.25**  
 Time on site: **8:15**  
 Time off site: **3:45**  
 Mileage: **48**

WELL No.	MW9	MW10	MW11	MW12	MW13
DIAMETER (in)	2.00	2.00	2.00	1.50	2.00
SCREENED INTERVAL (ft)	5-10	5-10	5-10	28-30.9	5 - 10
DEPTH TO WATER (ft)	9.89	7.35	9.40	26.42	DRY
	INITIAL FINAL	INITIAL FINAL	INITIAL FINAL	INITIAL FINAL	INITIAL FINAL
pH		5.9 5.7			
TEMP (°C)		16.8 16.4			
E <sub>cm</sub> (μmhos)		141 143			
ORP (mV)		35 74			
DO (mg/L)		2.54 1.56			
OTHER (units)					
TIME		11:45 11:55		12:28 12:34	
METHOD (DHP/CB/B)		DHP	1/2" B	1/2" B	
RATE (Lpm)		0.16		0.17	
VOLUME (L)		1.60		1.0	
COLOR		CLEAR CLEAR		CLEAR TURBID	
ODOR		SLIGHT ORGANIC		LIGHT SULFUR	
INTAKE DEPTH (FEET)		9.0			
TIME		11:56		12:36	
METHOD (DHP/CB/B)		DHP		1/2" B	
ANALYTICS	8260 List 1	8260 List 1	8260 List 1	8260 List 1	8260 List 1
TOTAL DRAWDOWN (FEET)	No Purge Sample ONLY 0.10 H <sub>2</sub> O	1.28			
REMARKS			ATTEMPTED TO BAIL NOT ENOUGH H <sub>2</sub> O TO		
WELL CONDITION	good	good	good	Fill one VDA	good
WASTE DRUMS					good

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: R Village Texaco  
Project No.: 4329.02  
Date: 2-3-05  
Global ID No.: T0602300415  
PM: CJW

Tech: SJD  
Mobe/Demob time: 25/25  
Travel time: 1.25  
Time on site: 8:15  
Time off site: 3:45  
Mileage: 48

	MW14	MW15	MW16	MW17	MW18
WELL No.:	2.00	2.00	2.00	2.00	2.00
DIAMETER (in)	5-10	5-10	4-14	4-14	4-14
SCREENED INTERVAL (ft)	9.52	5.16	10.52	11.22	12.02
DEPTH TO WATER (ft)					
FIELD INTRINSICS	INITIAL	FINAL	INITIAL	FINAL	INITIAL
	6.1	6.0	6.2	5.9	6.5
	16.7	16.4	16.1	17.5	16.7
	232	220	189	180	203
	-38	-47	-26	-17	-16
	1.64	0.34	1.16	0.39	4.88
DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING	DO (mg/L)	0.34	1.16	0.39	4.54
	OTHER (units)	—	—	—	—
	TIME	1:12	1:20	2:12	2:20
	METHOD (DHP/CB/B)	DHP	DHP	DHP	DHP
	RATE (Lpm)	0.19	0.19	0.19	0.16
	VOLUME (L)	1.50	1.50	1.90	1.60
PURGE	COLOR	CLEAR	CLEAR	Cloudy	Cloudy
				Med. Brown	Med. Brown
				Turbid	Turbid
				Med. Brown	Med. Brown
	ODOR	Med.	FUEL / RUBBER	RUBBER / SWEET	Med. SWEET
	INTAKE DEPTH (FEET)	9.0	13.5	13.5	13.5
SAMPLE	TIME	1:21	2:21	2:48	1:48
	METHOD (DHP/CB/B)	DHP	DHP	DHP	DHP
	ANALYTES	8260 List 1	8260 List 1	8260 List 1	8260 List 1
	TOTAL DRAWDOWN (FEET)	0.50	0.81	1.88	1.08
	REMARKS	No Purge - Sample only 0.28 H <sub>2</sub> O	—	FD - MB	—
	WELL CONDITION	good	good	good	good
WASTE DRUMS					

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



**LA CO ASSOCIATES**  
CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

R. VILLAGE TEXACO

Tech: ✓14

3-2-05

Project No.:

4329.02

WELL ID: MW1D

WELL ID: MW15

WELL ID: MWI 8

WELL ID: MW16



# **LACO ASSOCIATES**

**CONSULTING ENGINEERS**

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

R. VILLAGE TEXACO

Tech: SJD

Date: 2-2-05

Project No.:

4329.02

WELL ID:

WELL ID:

WELL ID:

WELL-IB



# **LACO ASSOCIATES**

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501  
TEL 707.443.5054  
FAX 707.443.0553

Project Name:

R. VILLAGE TERRACE

Project No.:

4329.02

Tech: SJD  
Date: 2-3-05

# WASTE DISPOSAL FORM

Project No. 4329.02

Date 2-3-05

Location R. VILLAGE TEXACO

By SJD

Number of Soil Drums 8

Number of Water Drums 1

Please Insert a Check Mark

## Condition of Drums

	Yes	No	Good	Fair	Deteriorated
Soil DOT drums	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water DOT drums	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other \_\_\_\_\_

- \* Please describe location of all drums with references with the site, or write any comments, below.

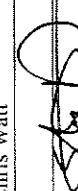
BEHIND AIR/WATER STATION NEXT TO RESTAURANT

A geometric diagram consisting of a hexagon divided into six triangles by a central point and three diagonals.

**NORTH COAST  
LABORATORIES LTD.**

6680 West End Road • Acata • CA 95521-9202  
707-822-4649 Fax 707-822-6011

## Chain of Custody

Attention:	Accounts Payable
Results & Invoice to:	Laco Associates
Address:	21 W. 4th St. Eureka CA 95501
Phone:	(707) 443-5054
Copies of Report to:	LACO ; Chris Watt 
Sampler (Sign & Print):	SID 
<b>PROJECT INFORMATION</b>	
Project Number:	4329.02
Project Name:	HPI - R Village Texaco
Purchase Order Number:	3020

**\*MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

NORTH COAST  
LABORATORIES LTD.

5680 West End Road • Arcata • CA 95521-9202  
707.822.4649 Fax 707.822.6811

## Chain of Custody

5680 West End Road • Arcata • CA 95521-9202  
707.822.4649 FAX 707.822.6831

Attention: Accounts Payable  
Results & Invoice to: Laco Associates  
Address: 21 W 4th St, Eureka CA 95501

Phone: (707) 443-5054  
Copies of Report to: LACO ; Chris Watt

Samper (Sign & Print):  SID

\***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

**ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT**